

State of Washington DEPARTMENT OF HEALTH

NORTHWEST DRINKING WATER REGIONAL OPERATIONS 20425 72nd Avenue South, Suite 310 • Kent Washington 98032-2388

August 25, 2020

GREG KEITH
ISSAQUAH WATER SYSTEM
PO BOX 1307
ISSAQUAH WA 98027-1307

Subject: Issaquah Water System (ID#36350)

King County

South Spar Booster Pump Station - Approval

Submittal #19-1008

Dear Greg Keith:

Thank you for submitting construction documents for the proposed South Spar BPS project. The documents were prepared by your engineer, Jeff Foray, PE and received in our office on October 24, 2019 with amendments received on August 11, 2020.

The revised construction documents for the above project, were reviewed and, in accordance with the provisions of WAC 246-290 are hereby **APPROVED**. The approval issued herein is only valid as it relates to current standards outlined in WAC 246-290. Future revisions in the rules may be more stringent and require facility modifications or corrective action.

It is acknowledged that the South Spar BPS project is included in the City's Capital Improvement Program in the City's 2018 Water System Plan (approved October 17, 2019).

Design Summary:

This project, combined with the future South Spar Reservoir project, addresses the City's goal to provide at least 40psi at the second story in the Highlands Central Park Operating Area. This project also provides added system resiliency.

The South Spar Pump Station, 2,000gpm firm capacity, will serve thee 742 zone from the 297 Valley zone or the Regional Supply. The project includes construction of more than 5,000 linear feet of 12-inch main connecting the pump station to the Valley 297 zone.

Two 125HP vertical turbine pumps normal operating conditions of 1,000gpm at 330 feet TDH each. One 200HP vertical turbine pump normal operating condition of 1,000gpm at 550 feet TDH. Each with variable frequency drives. Each Peerless Model M12LD.

Issaquah Water System August 25, 2020 Page 2

As required in WAC 246-290-120(5) within sixty days following the completion of and prior to the use of the above project or portions thereof, the enclosed construction report must be completed by a professional engineer and returned to this department. In addition, complete and submit the enclosed Pressure, Leakage, and Bacteriological Test Report form for applicable portions of this project.

The department's approval of your water system design does not confer or guarantee any right to a specific quantity of water. The approved number of service connections is based on your representation of available water quantity. If the Washington Department of Ecology, a local planning agency, or other authority responsible for determining water rights and water system adequacy determines that you have use of less water than you represented, the number of approved connections may be reduced commensurate with the actual amount of water and your legal right to use it.

Regulations establishing a schedule of fees for review of planning, engineering, and construction documents have been adopted (WAC 246-290-990). The total cost is \$1,027.00. An itemized invoice for the review of this project has been sent to the primary contact on file for your water system. Please remit complete payment in the form of a check or money order within thirty days of the date of this letter in the enclosed envelope or mail payment to: WSDOH, Revenue Section, PO Box 1099, Olympia WA 99507-1099.

WAC 246-290-120(8) provides that if construction of the project has not been started within two years of the date of this letter, this approval will become null and void unless you take action at that time to arrange for an extension of the approval in the manner prescribed.

Nothing in this approval shall be construed as satisfying other applicable federal, state, or local statutes, ordinances and regulations.

Sincerely,

Bueth Corta Brietta Carter, PE Regional Engineer

NW Office of Drinking Water

Enclosures: Construction completion report form

Invoice

cc: Public Health – Seattle & King County

Jeff Foray, PE, Kennedy Jenks

Construction Completion Report

In accordance with WAC 246-290-120 (5), a *Construction Completion Report* is required for all approved construction projects. Purveyors **must** submit a Construction Completion Report to the Office of Drinking Water (ODW) within sixty (60) days of completion and before use of any water system facility. This includes any source, water quality treatment, storage tanks, booster pump facilities, and distribution projects.

Please type or print legibly in ink:			
ISSAQUAH WATER SYSTEM	DOH System ID No.:	36350	
Name of Water System			
GREGORY KEITH	DOH Project No.:	19-1008	
Name of Purveyor (Owner or System Cont	act)	(if applicable)	
PO BOX 1307	Date Construction Doc	uments	
Mailing Address	Approved by DOH	8/25/2020	
ISSAQUAH, WA 98027-1307		(If applicable)	
City State Zi	p		
Project Name and Descriptive Title: SO	OUTH SPAR BPS		
CHECK ONE: Entire Project Compl	eted. Description of Portions Completed.		
	CANADA ED CAMBATE		
PROFESSIONAL ENGINEER'S A	CKNOWLEDGMENT (Complete items below-Attac	h additional sheets as needed)	
substantially completed in accordance with DOH. In the opinion of the undersigned e	aterials, reservoir and other designed physical facility in construction documents reviewed by the purveyor ngineer, the installation, physical testing procedures accordance with state regulations and principles of s	's engineer or approved by the s, water quality tests, and	
I have reviewed the disinfection procedure project and certify that they comply with the (Check all boxes that apply that are consist	es, pressure test results, and results of the bac ne requirements of the construction standards/special tent with the nature of the project.)	eteriological test(s) for this fications approved by the DOH.	
This project changes the physical capa equivalent residential units (ERUs.)	acity of the system to serve consumers. The sy Not applicable	ystem is now able to serve _	
	Date Signed		
	Name of Engineering Firm		
P.E.'s Seal	Name of PE Acknowledging Constru	ction	
	Mailing Address		
	City State	Zip	
	Engineer's Signature		
	State/Federal Funding Type (if at	nu)	
		.,,,	
Please return completed form to DOH region	SWRO Drinking Water	ERO Drinking Water	
NWRO Drinking Water Department of Health	Department of Health	Department of Health	
20425 72 nd Ave. S, Ste 310	PO Box 47823	16201 E Indiana Ave, Suite 1500	
Kent, WA 98032-2358 (253) 395-6750	Olympia, WA 98504-7823 (360) 236-3030	Spokane Valley, WA 99216 (509) 329-2100	
	is available on request in other formats. To submit a		

For persons with disabilities, this document is available on request in other formats. To submit a request, please call 1-800-525-0127 (TTY 1-800-833-6388).

The purveyor must attach a completed Water Facilities Inventory (WFI) form in accordance with WAC 246-290-120(6), if applicable. Contact the regional office in your area for WFI forms or additional Construction Completion Report forms.

WASHINGTON STATE DEPARTMENT OF HEALTH NORTHWEST DRINKING WATER SECTION PRESSURE, LEAKAGE AND BACTERIOLOGICAL TEST REPORT

A.	General Information:				
	Water System Name	Project			
	Engineer	Contractor			
	Pipe Location	Installation Date			
מ					
В.	Pressure and Leakage Test:				
	1. Is the pipe partially backfilled?		Yes / No		
	2. Have the concrete thrustblocks been all	owed to cure?	Yes / No		
	3. Has water been allowed to sit in the pipe at least				
	- · · · · · · · · · · · · · · · · · · ·		Yes / No		
	4. Have provisions been made to remove a		Yes / No		
	5. Are all test ends capped and properly be	raced?	Yes / No		
	Test Procedure (APWA, AWWA, C-600, etc.)				
	Pipe Material				
	Pipe Diameter				
	Maximum Test Pressure				
	Rated Valve Working Pressure				
	Allowable Leakage $L = ND\sqrt{P}$ Where: $N = Number of joints in pipe tested$				
	gallons/hour 7400	D = Nominal pipe diameter, inches			
	ganons/nout /400	P = Average pressure during test, psi			
		1 /1voluge pressure during test, psi			
	Duration of Test	Gallons of Water Used			
leaka	we reviewed the results of the pressure and leakange during the test and procedures utilized and rements of the construction specifications approve	nd results obtained by the contractor co	mply with the		
		Engineer's Signature Date			
C.	Disinfection and Bacteriological Test:				
	Type of Disinfection	Amount of Disinfection			
	Volume of Pipe				
	Date Disinfection Added	Date Disinfection Flushed			
	Initial Residual				
	Lab Sample Number				
they	re reviewed the disinfection procedures and result comply with the requirements of the construentment of Health.	ts of the bacteriological test for this project ction specifications approved by the Wa	and certify that ashington State		
		Engineer's Signature Date	12		

revised 4/99